

BEDOK VIEW SECONDARY SCHOOL END-OF-YEAR EXAMINATION 2020

CANDIDATE NAME	
REGISTER NUMBER	CLASS
Mr.	OBT MON
MATHEMATICS	4048/01
Secondary 1 Express	2 October 2020
Paper 1	1 hour 15 minutes
Candidates answer on the Question Paper.	
READ THESE INSTRUCTIONS FIRST	
Write your index number and name on all the work you hand in. Write in dark blue or black pen. You may use an HB pencil for any diagrams or graphs. Do not use staples, paper clips, glue or correction fluid.	
Answer all questions. If working is needed for any question it must be shown with the comission of essential working will result in loss of marks. The use of an approved scientific calculator is expected, where If the degree of accuracy is not specified in the question, and if answer to three significant figures. Give answers in degrees to π , use either your calculator value or 3.142, unless the question π .	appropriate. The answer is not exact, give the one decimal place.
At the end of the examination, fasten all your work securely toge. The number of marks is given in brackets [] at the end of each. The total of the marks for this paper is 50.	
	Total
Setter: Ms Tan SL Parent's / Guardian	n's Signature:

This document consists of 11 printed pages.

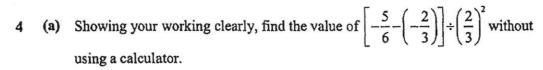
Do not turn over the page until you are told to do so.

3

Answer all the questions.

1 (a)	Expr	ress the following numbers correct to 2 significant figures.
	(i)	0.003928
		Answer (a)(i)[1]
	(ii)	5919
		Answer (a)(ii)[1]
(b)		119, there were approximately 270 300 visitor arrivals to Universal Studios apore (USS). This value has been rounded to 4 significant figures.
	(i)	Write down the greatest possible number of visitor arrivals.
		Answer (b)(i)[1]
	(ii)	Write down the least possible number of visitor arrivals.
		Answer (b)(ii)[1]
2 (a)	Expi	ress 1386 as a product of its prime factors.
	-	EDUCATION
		Answer (a)[2]
(b)	Find	the smallest positive integer k such that $1386k$ is a perfect cube.
		Answer (b) $k =$
(c)	Find	the smallest positive integer k such that $\frac{1386}{k}$ is a perfect square.
		Answer (c) $k =$

3		school bell of Bedok East School goes off every 35 minutes while the school bell of ok West School goes off every 40 minutes. The first bell of both schools goes off at 5.
	(a)	When is the next time that the bells of both schools go off at the same time?
		Answer (a) [2]
	(b)	If Bedok East School has 11 periods including recess on Monday and Bedok West School has 10 periods including recess on Monday, pupils of which school are dismissed earlier on Monday? How much earlier?
		dismissed earlier on Monday? How much earlier?



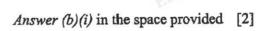




Answer	(a)		[2	
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(b) (i) Represent the numbers $-\frac{3}{2}$, 2.7, -3 and 0.5 on a number line.





(ii) Hence, arrange the numbers in part (b)(i) in descending order.



5	journ				eed of 35 km/h. On his return turn journey was shorter by	
	(a)	Express the distance,	in km, between Tow	n A and Town B i	n terms of x.	
	(b)	Express the time take	en, in hours, for the re		DANY km [1]
	(c)	Form an equation in A to Town B.	terms of x and find th		hrs [1	1]
			·····	Answer (c)		3]

		7	
6	(a)	The result of a number, when increased by 40%, is 126. Find the number.	
			•
			503
		Answer (a)	[2]
	(b)	A fruit seller bought 200 pears for \$80. Upon closer examination, he discovered that some of the pears were rotten and had to be discarded. The fruit seller sold the remaining pears at 50 cents each and made a profit of \$12. Calculate the percentage of pears that were discarded.	
		Answer (b)%	[3]
	(c)	A watch is priced at €430 in Paris. Calculate how much Germaine needs to pay in	
		SGD (S\$) if the exchange rate is S\$1 = ϵ 0.6368.	
		Answer (b)	
		Answer (c) S\$	[2]

[2]

7 (a) Draw and label triangle ABC such that AB = 7.9 cm, $\angle BAC = 48^{\circ}$ and AC = 4.8 cm.

- (b) Measure and write down the length of BC.
- (c) Measure and write down the size of $\angle ACB$.

Answer (a)

DANYAL

DANYAL

DANYAL

DANYAL

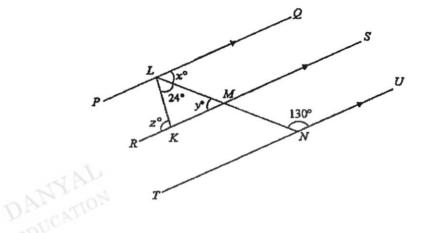
DANYAL

Answer (c)
$$\angle ACB = \dots ^{\circ}$$
 [1]

8	(a)	The	first four terms in a sequence are 53, 47, 41, 35.
		(i)	Find an expression, in terms of n , for the n^{th} term, T_n , of the sequence.
			Answer (a)(i)[2]
		(ii)	Explain why it is not possible for a term in the sequence to be a multiple of 2.
		Answ	<i>per (a)</i> (ii)
			[1]
	(b)	The	n^{th} term of another sequence is given by $T_n = \frac{3n+6}{150-4n}$.
	(5)	(i)	Use the formula to find T_0 .
			Answer (b)(i)[1]
			Answer (b)(i)[1]
		(ii)	The value of T_k can be simplified to $\frac{17}{30}$. Find the value of k .
			Answer (b)(ii) $k =$ [2]
		(iii)	Suggest a value of n such that the value of T_n is greater than 1.

. .

9 Find the values of x, y and z in the following diagram, stating your reasons clearly.



DANYAL

DANYAL

DANYAL

Answer $x=$		[2]
-------------	--	-----

$$z=$$
 [2]

10	An ice-cream company conducted a survey on 30 people to determine the preferred
	ice-cream flavour. The flavours listed were Chocolate (C), Vanilla (V), Strawberry (S)
	and Mango (M). The survey findings were presented as shown below.

С	V	S	M	M
S	M	С	M	M
M	M	V	S	S
S	M	С	M	V
С	M	S	S	С
V	V	S	C	S

(a) Complete the table below.

Flavour	Tally	Frequency
Chocolate		
Vanilla		
Strawberry		
Mango	MYAD	

[2]

(b) Write down the flavour that is the most popular.

Anmuor	(h)	******************************	[17	ı
Answer	$\{U\}$	*********	[1]	ł

(c) If the survey findings were represented using a pie chart, calculate the angle of the sector that represents the people who preferred Vanilla flavour for their ice-cream.

Answer	(c)		0	[2]
Allswei	(6)	***************************************		[2]



BEDOK VIEW SECONDARY SCHOOL END-OF-YEAR EXAMINATION 2020

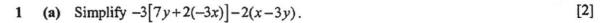
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MATHEMATICS Secondary 1 Express Paper 2 Additional Materials: Answer Paper	4048/02 7 October 2020 1 hour 30 minutes
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Do not turn over the page until you are told to do so.

3

Answer all the questions.

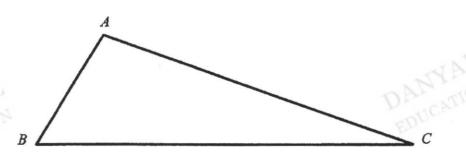


- (b) Express $\frac{3(2y-x)}{9} \frac{7(7x-4y)}{45}$ as a single fraction in its simplest form. [3]
- (c) Given that x = -4, $y = \frac{1}{4}$ and z = 9, find the value of

(i)
$$3yz - 9x$$
, [2]

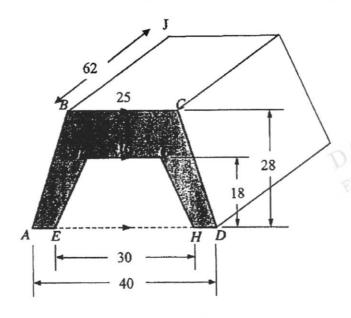
(ii)
$$\frac{x^2}{y^2} - \frac{1}{z}$$
. [2]

- 2 (a) Calculate $\frac{(-48.1)^2}{\sqrt[3]{28} \times 0.876}$. Write down the first five digits on your calculator display. [1]
 - (b) Write your answer to part (a) correct to 3 significant figures. [1]
 - (c) Figure ABC below is a triangle. AB = (5x-7) cm, AC = (4x+3) cm and BC = (9x-9) cm.



- (i) Find an expression, in terms of x, for the perimeter of triangle ABC. [1]
- (ii) The perimeter of triangle ABC is 41 cm. Form an equation in terms of x and solve it. [2]
- (iii) Find the length of the longest side of the triangle. [1]

3 The figure below shows a stool. AD = 40 cm, EH = 30 cm, BC = 25 cm and FG = 16 cm. The distances of BC and FG from the ground are 28 cm and 18 cm respectively.



(a) Find the shaded cross-sectional area ABCDHGFE.

[3]

(b) Given that the length of BJ is 62 cm, find the volume of the stool, assuming the stool is a solid.

[2]

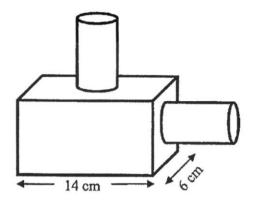




[3]

[2]

A solid is formed by mounting 2 identical cylinders on a rectangular prism as shown in the figure below. The cylinders have a radius of 4 cm and a height of 9 cm. The cuboid is 14 cm long, 6 cm wide and has a height that is $\frac{2}{3}$ the height of the cylinder.



- (a) Find the volume of the solid.
- (b) Find the total surface area of the solid. [3]
- (c) The solid is melted down to form a cube. Find the length of each side of the cube. [2]
- 5 (a) Part of a restaurant bill is shown below.

Delicious Thai Restau	rant
Pineapple rice	\$11.50
Stir-fried chicken with basil	\$8.80
Green papaya salad	\$7.90
Green curry	\$9.20
Thai fish cakes	\$6.30

- (i) There is a service charge of 10% and GST is at 7%. Calculate the total cost of the meal.
- (ii) The restaurant does not impose a service charge for takeout. Mr Ho says he could have saved 10% of the total cost obtained in part (a) if he chose to do a takeout instead. Is he correct? Explain your answer. [2]
- (b) In an election for the president of the student council, Benjamin received 240 votes. This was 60% of the total number of votes.
 - (i) Find the total number of votes. [1]
 - (ii) Among the total votes, 18 votes were spoilt while the rest voted for Nazri.

 Express the number of votes Nazri received as a percentage of the votes that were not spoilt.

 [2]

6	(a)	A reg	gular <i>n</i> -sided polygon has an exterior angle of x° .		
		(i)	Find an expression for n in terms of x° .		[1]
		(ii)	If the size of the interior angle is 2 times the size of find the size of the exterior angle.	the exterior angle x° ,	[2]
		(iii)	Hence, find n .		[1]
	(b)		lygon has n sides. When the number of sides is tripl ased by 30°. Find the value of n .	ed, the interior angle is	[3]
	2	12		Dar Mor	
7	(a)	Con	vert 6 m/s to kilometres per hour.		[2]
	(b)	Ms S	See borrows \$30 000 from a bank to renovate her hou	ise. The bank charges	
		simp	le interest at a rate of 2.9% per annum. Calculate the	amount of interest she	
			o pay if she takes 7 years to repay the loan.		[2]
	(c)	The	table below shows the parking charges at a certain sl	hopping centre.	
			1 st hour	\$2.40	
			Every subsequent $\frac{1}{2}$ hour or part thereof	\$0.70	
		(i)	Calculate the parking charges if Ms Zhang parks h	er car for 2 hr 27 minutes.	[2]
		(ii)	If Ms Zhang has a cashcard value of \$7, what is the complete hours she can park her car at the shopping		[2]

END OF PAPER

Mathematics Department

Marking Scheme

Year	2020	Level & Stream	1E
Type of Exam	EYE	Subject	Math Paper 1

No.	Working				Remarks
1	(ai)	0.0039	[B1]		
	(aii)	5900	[B1]		
	(bi)	270 349	[B1]		
	(bii)	270 250	[B1]		M.

[Total: 4 m]

No.	5	Working	Remarks
2	(a)	2 1386 3 693 3 231 7 77 11	
		$1386 = 2 \times 3^2 \times 7 \times 11$ [A1]	
	(b)	$k = 2^2 \times 3 \times 7^2 \times 11^2 = 71148$ [B1]	
	(c)	$k = 2 \times 7 \times 11 = 154$ [B1]	

[Total: 4 m]

No.		Working	Remarks
3	(a)	35=5×7	DAFCATIO
	m	$40 = 2^3 \times 5$	EDUC
	Chr	LCM of 35 and $40 = 2^3 \times 5 \times 7 = 280$ [M1] 280 mins = 4 hr 40 mins 07 25 + 4 hr 40 mins = 12 05 [A1]	
	(b)	Bedok East - 11×35 mins = 385 mins = 6 hr 25 mins Bedok West - 10×40 = 400 mins = 6 hr 40 mins 6hr 40 mins - 6 hr 25 mins [M1] = 15 mins	
		Bedok East is earlier by 15 mins [A1]	

[Total: 4 m]

Mathematics Department

Marking Scheme

No.		Working	Remarks
4	(a) $ \begin{bmatrix} -\frac{5}{6} - \left(-\frac{2}{3}\right) \\ = \left[-\frac{5}{6} + \frac{2}{3}\right] \\ = \left[-\frac{5}{6} + \frac{4}{6}\right] \\ = \left(-\frac{1}{6}\right) \times \frac{9}{4} $ $= -\frac{9}{24} $		DANYAL
	$=-\frac{3}{8}$	[A1]	
	and lines to	$\frac{3}{2}$ 0.5 2.7 per number line with arrow on the rigindicate each value position 4 values in correct order	ht and left
	(bii) $2.7, 0.5, -\frac{3}{2}$		

[Total: 5 m]

Mathematics Department

Marking Scheme

No.		Working	Remarks
5	(a)	Distance = $35x$ km [B1]	
	(b)	Time = $\left(x - \frac{1}{2}\right)$ hrs [B1]	
	(c)	Expressing distance based on new speed	
		$= \frac{125}{100} \times 35 \times \left(x - \frac{1}{2}\right) \text{km}$	
N		$= \frac{175}{4} \times \left(x - \frac{1}{2}\right) \text{ km} \qquad [M1]$	DANYAL
DOC!	0.170	$\frac{175}{4} \times \left(x - \frac{1}{2}\right) = 35x \qquad [M1]$	EDUCA
		$\frac{35x}{4} = \frac{175}{8}$	
		x = 2.5 hours [A1]	

[Total:5 m]

No.		Working	Remarks
6	(a)	$ \begin{array}{r} 140\%126 \\ 100\% \frac{126}{140} \times 100 [M1] \\ = 90 [A1] \end{array} $	
AN	(b)	Let the no. of pears discarded be x . Amount collected from sale of remaining pears $= (200-x)\times0.5$ $0.5(200-x)-80=12$ $100-0.5x-80=12$ $0.5x=8$ $x=16$ [M1] Percentage discarded $= \frac{16}{200}\times100\%$ $= 8\%$ [A1]	Alternative method: $\frac{80+12}{0.50} = 184$ $200-184-16$
	(c)	S\$1 € 0.6368 S\$ $\frac{1}{0.6386}$ € 1 S\$ $\frac{1}{0.6368}$ × 430 € 430 [M1] = S\$ 675.25 (2 d.p) [A1]	
		= S\$ 675.25 (2 d.p) [A1]	[Total : 7m]

[Total:7m]

Bedok View Secondary School Mathematics Department

Marking Scheme

No.		Working	Remarks
7	(a)		•
	AL		DANYAL
	The state of the s	No marks if construction lines are not present	
		Deduct P if lengths and angles are not labelled	
	KIA	[B2] for all AB, AC and ∠BAC correct. (all 3) [B1] for any 2 correct dimensions	
M	(b)	$BC = 5.9 \text{ cm} \pm 0.1 \text{ cm} [B1]$	DUCA
, , , , , , , , , , , , , , , , , , , 	(c)	$\angle ACB = 84^{\circ} \pm 1^{\circ}$ [B1]	

[Total: 4 m]

Mathematics Department

Marking Scheme

No.		Working	Remarks
8	(ai)	$T_n = 53 - 6(n-1)$ [M1]	
		= 53 - 6n + 6	
	(- "	=59-6n [A1]	
	(aii)	The terms are all <u>odd numbers</u> and will never be a multiple of 2. [B1]	
	(bi)	$T_9 = \frac{3(9) + 6}{150 - 4(9)}$	N
	AL	$=\frac{11}{38}$ [B1]	DANTION
3	(bii)	3k+6 _17	EDUC
		$\frac{150-4k}{150} = \frac{30}{30}$	1
		30(3k+6) = 17(150-4k) [M1]	
		90k + 180 = 2550 - 68k	
		158k = 2550 - 180	
		k = 15 [A1]	
	(biii)	Accept any number 21 and above [B1]	$\frac{3n+6}{150-4n} > 1$
		DANYAL	3n+6>150-4n
		DATICAL	7n > 144
		ED	144
			$n > \frac{144}{7}$
			n > 20.57
			[Total : 7 m]
			DANYA

Mathematics Department

Marking Scheme

No.	Working	Remarks
9	$\angle x = 180^{\circ} - 130^{\circ}$ [M1] = 50° (interior angles) [A1] $\angle x = \angle y = 50^{\circ}$ (alternate angles) [B1] $\angle z = 24^{\circ} + 50^{\circ}$ [M1] = 74° [A1] (exterior angles of triangle or alternate angles)	Deduct P if reasons are not given. (1P per question)
	J.	MADY

[Total : 5 m]

No.			Working		Remarks
10	(a)			And the property of the	
		Flavour	Tally	Frequency	
		Chocolate	 	6	
		Vanilla	##	5	
		Strawberry	 	9	
		Mango	 	10	
	(b)	[B1] for 3 correct value [B1] Mango [B1]	EDO		
	(c)	$Vanilla = \frac{5}{30} \times 360$	[M1]		
		= 30 = 60°	A1]		AYA
	MA	DN DN			DANYA

[Total:5 m]

Mathematics Department

Marking Scheme

Year	2020	Level & Stream	1E
Type of Exam	EYE	Subject	Math Paper 2

No.		Working	Remarks
1	(a)	-3[7y+2(-3x)]-2(x-3y)	
		= -3[7y - 6x] - 2x + 6y	1
	N	= -21y + 18x - 2x + 6y [M1]	MATTON
N	12	= 16x - 15y [A1]	DE ATIO.
NUC	(b)	$\frac{3(2y-x)}{9} - \frac{7(7x-4y)}{45}$	EDC
		$=\frac{6y-3x}{9} - \frac{49x-28y}{45} $ [M1]	
		$=\frac{5(6y-3x)-49x+28y}{45}$ [M1]	
		$= \frac{30y - 15x - 49x + 28y}{1}$	
		45	
		$=\frac{-64x+58y}{45}$ [A1]	
	(ci)	$=\frac{-64x + 58y}{45} \qquad [A1]$ $3yz - 9x$	Accept 42.75
		$= 3\left(\frac{1}{4}\right)(9) - 9(-4)$ [M1]	
		$=\frac{27}{4}+36$	
		$= 42\frac{3}{4} [A1]$ $\frac{x^2}{y^2} - \frac{1}{z}$	MAN
N	(cii)	$\frac{x^2}{x^2} - \frac{1}{x}$	DAGCATIC
EDU	CATH	$= \frac{(-4)^2}{\left(\frac{1}{4}\right)^2} - \frac{1}{9} [M1]$	ED
		$=\frac{16}{16} - \frac{1}{9}$	
		$= 255\frac{8}{9}$ [A1]	

[Total:9 m]

Mathematics Department

Marking Scheme

No.		Working	Remarks
2	(a)	869.76 [B1]	
	(b)	870 (3 s.f) [B1]	
	(ci)	Perimeter = $(5x-7)+(4x+3)+(9x-9)$ = $5x+4x+9x-7+3-9$ = $(18x-13)$ cm [B1]	
7	(cii)	18x - 13 = 41 [M1] 18x = 54 $x = \frac{54}{18} = 3 $ [A1]	DANYAL
DUC	(ciii)	The lengths are $(4\times3)+3=15 \text{ cm}$, $(5\times3)-7=8 \text{ cm}$, $(9\times3)-9=18 \text{ cm}$ The longest side is 18 cm. [B1]	Deduct U for no units. (1 U for entire question)

[Total:6 m]

No.		Working	Remarks
3	(a)	Area of big trapezium $ABCD$ $= \frac{1}{2}(25+40) \times 28$ $= 910 \text{ cm}^2$ Area of small trapezium $EFGH$ $= \frac{1}{2}(16+30) \times 18$ [M1]	A.V.
	YA	= 414 cm ² Cross-sectional area = 910 - 414 [M1] = 496 cm ² [A1]	DAN
EDI	(b)	Volume = Area × Height = 496×62 [M1] = 30752 cm^3 [A1]	

[Total:5 m]

Mathematics Department

Marking Scheme

No.		Working	Remarks
4	(a)	Volume of cuboid = $14 \times 6 \times \left(\frac{2}{3} \times 9\right)$ [M1] = 504 cm ³ Volume of 2 cylinders = $2 \times \pi \times 4 \times 4 \times 9$ [M1]	
N	AL	$= 904.7786$ Total volume = $504 + 904.7786$ $= 1408.7786$ $= 1410 \text{ cm}^3 (3 \text{ s.f.}) [A1]$	ANYAL
010C	(b)	Surface area of 2 cylinders	ED.
		$=\frac{-2\pi rh \times 2}{=-2 \times \pi \times 4 \times 9 \times 2}$ [M1]	
		$=-144\pi$	
	-	Surface area of rectangular prism	
		$= \frac{(2\times14\times6) + (2\times\frac{2}{3}\times9\times14) + (2\times\frac{2}{3}\times9\times6)}{=408 \text{ cm}^2}$ [M1]	*
		Total Surface area	
		$=\frac{144\pi}{408}$	
		$= 860.389 \text{ cm}^2$ $= 860 \text{ cm}^2 - (3 \text{ s.f}) - [A1]$	
	(c)	Volume = x^3	Α.
		$x = \sqrt[3]{1408.7786}$ [M1]	MA
	VA	= 11.210	DAPATIO
AT	ATT	= 11.2 cm (3 s.f.) [A1]	EDUCA

[Total: 8 m]

Mathematics Department

Marking Scheme

No.		Working	Remarks
5	(ai)	Total = \$11.50 + \$8.80 +\$7.90 + \$9.20 +\$6.30 = \$43.70 [M1] With 10% Service Charge = 1.1×43.70 = \$48.07 With 7% GST = 1.07×48.07 = \$51.43 (2 d.p) [A1]	Deduct U for no units (1 U for entire question)
DUC TA	(aii)	Total Add GST = 1.07×43.70 = \$46.76 (2 d.p) He saved \$51.43 - \$46.76 = \$4.67 [M1]	POUCATION
		If he saved 10%, he should have saved 0.1×51.43 = \$5.14 No, he is not correct. [A1]	
	(bi)	60% 240 Total100% $\frac{240}{60} \times 100$ = 400 votes [B1]	
	(bii)	No of votes that were not spoilt = $400 - 18$ = 382 Nazri received = $382 - 240$ = 142 Percentage of votes Nazri received = $\frac{142}{382} \times 100 \%$ [M1] = 37.1727 = $37.2 \% (3 s.f)$ [A1]	
	~	- 37.2 70 (3 S.1) [AL]	[Total:7 m]
			DAN

Mathematics Department

Marking Scheme

No.		Working	Remarks
6	(ai)	$n = \frac{360}{x}$ [B1]	
	(aii)	2x = 180 - x [M1]	
		3x = 180 $x = 60^{\circ}$ [A1]	
_	(aiii)	$n = \frac{360}{60} = 6$ [B1]	MYAL
DUC	(b)	$\frac{(3n-2)\times180}{3n} - \frac{(n-2)\times180}{n} = 30 [M1]$ $\frac{540n-360}{3n} - \frac{(540n-1080)}{3n} = 30$ $\frac{540n-360-540n+1080}{3n} = 30 [M1]$ $\frac{720}{3n} = 30$ $720 = 90n$ $n = \frac{720}{90} = 8 [A1]$	EDUCATIO

[Total: 7 m]





Mathematics Department

Marking Scheme

No.		Working	Remarks
7	(a)	$6 \text{ m/s} = \frac{6}{1000} \times 3600 \text{ [M1]}$ = 21.6 km/h [A1]	Accept $21\frac{3}{5}km/h$ Deduct U for no units (1U for entire question)
DUC VV	(b)	Interest = $\frac{30000 \times 2.9 \times 7}{100}$ [M1] = \$6090 [A1]	EDUCATIO
	(ci)	Parking Charges = $$2.40 + 3 \times 0.7$ [M1] = $$4.50$ [A1]	
	(cii)	\$7 - \$2.40 = \$4.60 \[\frac{4.60}{0.7} = 6.57 \text{ half hours [M1]} \] \[= 6 \text{ half hours (round down)} \] \[= 3 \text{ hours} \] Total = 1 +3 \[= 4 \text{ hours [A1]} \]	
		EDUCA	[Total:8 m]

